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=> index bioscience

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INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 13:24:25 ON 28 MAR 2005

75 FILES IN THE FILE LIST IN STNINDEX

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=> metallic (w) clusters and misfolded (w) proteins

27 FILES SEARCHED...

59 FILES SEARCHED...

0 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L1 QUE METALLIC (W) CLUSTERS AND MISFOLDED (W) PROTEINS

=> metallic with clusters and prions

26 FILES SEARCHED...

39 FILES SEARCHED...

55 FILES SEARCHED...

0 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L2 QUE METALLIC WITH CLUSTERS AND PRIONS

=> metallic with clusters and proteins

1 FILE BIOTECHABS

1 FILE BIOTECHDS

7 FILE CAPLUS

1 FILE CEN

34 FILES SEARCHED...

55 FILES SEARCHED...

1 FILE PROMT

1 FILE TOXCENTER

20 FILE USPATFULL

5 FILE USPAT2

2 FILE WPIDS

2 FILE WPINDEX

10 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L3 QUE METALLIC WITH CLUSTERS AND PROTEINS

=> d rank

F1 20 USPATFULL

F2 7 CAPLUS

F3 5 USPAT2

F4 2 WPIDS

F5 2 WPINDEX

F6 1 BIOTECHABS

F7 1 BIOTECHDS

F8 1 CEN
F9 1 PROMT
F10 1 TOXCENTER

=> metallic (w) clusters and proteins

1 FILE BIOTECHABS
1 FILE BIOTECHDS
7 FILE CAPLUS
1 FILE CEABA-VTB
1 FILE CEN
1 FILE FROSTI

41 FILES SEARCHED...

1 FILE PROMT
1 FILE TOXCENTER
17 FILE USPATFULL
5 FILE USPAT2
2 FILE WPIDS
2 FILE WPINDEX

12 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L4 QUE METALLIC (W) CLUSTERS AND PROTEINS

=> file caplus

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SESSION

FULL ESTIMATED COST

10.62

10.83

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FILE COVERS 1907 - 28 Mar 2005 VOL 142 ISS 14

FILE LAST UPDATED: 27 Mar 2005 (20050327/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> metallic (w) clusters and proteins

241868 METALLIC
278 METALLICS
242066 METALLIC
(METALLIC OR METALLICS)
133102 CLUSTERS
805 METALLIC (W) CLUSTERS
1197864 PROTEINS
4 PROTEINSES
1197868 PROTEINS
(PROTEINS OR PROTEINSES)

L5 7 METALLIC (W) CLUSTERS AND PROTEINS

=> d ti 1-7

L5 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
TI Bacterial protein compartments for the production of gas sensors

L5 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
TI Rydberg excitation and photoionization for molecular shape
characterization

L5 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
TI Method and device for identifying biopolymer sequences using an optical
sensor

L5 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
TI Method and device for identifying a polymer

L5 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
TI Photobiomolecular deposition of metallic particles and films

L5 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
TI Surface plasmon resonance sensor reinforced with metal clusters

L5 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
TI The future of high resolution molecular microscopy

=>

---Logging off of STN---

Connection closed by remote host
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Unable to generate the STN prompt.
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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks
(ROSPATENT) added to list of core patent offices covered
NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status
data from INPADOC
NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded
NEWS 7 MAR 02 GBFULL: New full-text patent database on STN
NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced

NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded
 NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced
 NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
 NEWS 12 MAR 22 PATDPASPC - New patent database available
 NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
 NEWS 14 APR 04 EPFULL enhanced with additional patent information and new fields
 NEWS 15 APR 04 EMBASE - Database reloaded and enhanced

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
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 AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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=> index bioscience

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ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 11:48:24 ON 08 APR 2005

75 FILES IN THE FILE LIST IN STNINDEX

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=> metal (w) clusters and (prions or misfolded with proteins)

16 FILES SEARCHED...

23 FILES SEARCHED...

34 FILES SEARCHED...

55 FILES SEARCHED...

1 FILE SCISEARCH

5 FILE USPATFULL

1 FILE USPAT2

73 FILES SEARCHED...

3 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L1 QUE METAL (W) CLUSTERS AND (PRIONS OR MISFOLDED WITH PROTEINS)

=> file scisearch uspatfull uspat2

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
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FULL ESTIMATED COST

ENTRY	SESSION
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FILE 'SCISEARCH' ENTERED AT 11:53:23 ON 08 APR 2005
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FILE 'USPATFULL' ENTERED AT 11:53:23 ON 08 APR 2005
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CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

=> metal (w) clusters and (prions or misfolded with proteins)
L2 7 METAL (W) CLUSTERS AND (PRIONS OR MISFOLDED WITH PROTEINS)

=> d ab bib 1-7

L2 ANSWER 1 OF 7 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
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AB Lateral features of size 1-10 nm are created on graphite, using an RF magnetron gas-condensation cluster beam deposition source. Specifically, size-selected gold clusters, Au-55(+) and Au-70(+), are pinned to the graphite surface, in order to explore the immobilization of protein molecules. Refined sample preparation protocols enable the utilization of the atomic force microscope (AFM) to visualize two proteins, histidine affinity tagged green fluorescent protein (pHAT-GFP) and Human Oncostatin M, both in air, and in physiological buffer solution, which mimics their natural environment. Both protein islands (complexes) and individual (or a few) protein molecules are identified. The impetus for single molecule science studies lies in the possible observation of the structural conformation changes of proteins as they perform their individual functions in their native environments. The manner in which specific proteins organize themselves spatially is a key consideration in understanding how they function, e.g., in disease control. The cluster approach creates sufficiently dilute arrays of truly nanoscale features that single molecule optical experiments may also be feasible in the future. Experiments on the re-usability of the nanocluster films provide further proof of the resilience and versatility of this type of nanostructured surface for protein immobilization work. (C) 2003 Elsevier B.V. All rights reserved.

AN 2004:353571 SCISEARCH

GA The Genuine Article (R) Number: 809ZU

TI Clusters for biology: immobilization of proteins by size-selected
metal clusters

AU Collins J A; Xirouchaki C; Palmer R E (Reprint); Heath J K; Jones C H
CS Univ Birmingham, Sch Phys & Astron, Nanoscale Phys Res Lab, Birmingham B15
2TT, W Midlands, England (Reprint); Univ Birmingham, Sch Biosci,
Birmingham B15 2TT, W Midlands, England

CYA England

SO APPLIED SURFACE SCIENCE, (15 MAR 2004) Vol. 226, No. 1-3, pp. 197-208.
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM,
NETHERLANDS.

ISSN: 0169-4332.

DT Article; Journal

LA English

REC Reference Count: 41

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L2 ANSWER 2 OF 7 USPATFULL on STN

AB Compositions and methods for the isolation and manipulation of misfolded, or partially **misfolded**, **proteins** present in blood and other biological materials are provided. In one aspect of the invention, the compositions, hereinafter termed "proteons" are comprised of **misfolded proteins**. Also provided are

compositions and methods for the isolation and manipulation of proteon nucleation centers (PNCs) upon which the proteons of the present in blood and other biological materials form. In another aspect of the invention, the PNCs are comprised of metallic nanoclusters.

AN 2004:178357 USPATFULL
TI Method of isolation and self-assembly of small protein particles from blood and other biological materials
IN Vodyanoy, Vitaly J., Auburn, AL, UNITED STATES
Samoylov, Alexandre M., Auburn, AL, UNITED STATES
Pustovyy, Oleg M., Auburn, AL, UNITED STATES
PA Auburn University, Auburn University, AL (U.S. corporation)
PI US 2004137523 A1 20040715
AI US 2003-674750 A1 20030930 (10)
PRAI US 2002-415108P 20020930 (60)
DT Utility
FS APPLICATION
LREP ALSTON & BIRD LLP, BANK OF AMERICA PLAZA, 101 SOUTH TRYON STREET, SUITE 4000, CHARLOTTE, NC, 28280-4000
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 4 Drawing Page(s)
LN.CNT 1371
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 3 OF 7 USPATFULL on STN

AB Aluminim hydroxide fibers approximately 2 nanometers in diameter and with surface areas ranging from 200 to 650 m.sup.2/g have been fount to be highly electropositive. When dispersed in water they are able to attach to and retain electronegative particles. When combined into a composite filter with other fibers or particles they can filter bacteria and nano size particulates such as viruses and colloidal particles at high flux through the filter. Such filters can be used for purification and sterilization of water, biological, medical and pharmaceutical fluids, and as a collector/concentrator for detection and assay of microbes and viruses. The alumina fibers are also capable of filtering sub-micron inorganic and metallic particles to produce ultra pure water. The fibers are suitable as a substrate for growth of cells. Macromolecules such as proteins may be separated from each other based on their electronegative charges.

AN 2003:185611 USPATFULL
TI Nanosize electropositive fibrous adsorbent
IN Tepper, Frederick, Sanford, FL, UNITED STATES
Kaledin, Leonid, Port Orange, FL, UNITED STATES
PI US 2003127393 A1 20030710
US 6838005 B2 20050104
AI US 2002-177709 A1 20020621 (10)
PRAI US 2001-300184P 20010622 (60)
DT Utility
FS APPLICATION
LREP Allen, Dyer, Doppelt, Milbrath & Gilchrist, P. A., P. O. Box 3791, Orlando, FL, 32802
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 5 Drawing Page(s)
LN.CNT 1368
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 4 OF 7 USPATFULL on STN

AB Disclosed are therapeutic methods for the treatment of disease material involving administration of a thermotherapeutic magnetic composition, which contains single-domain magnetic particles attached to a target-specific ligand, to a patient and application of an alternating magnetic field to inductively heat the thermotherapeutic magnetic composition. Also disclosed are methods of administering the

thermotherapeutic magnetic material composition. The thermotherapeutic methods may be used where the predetermined target is associated with diseases, such as cancer, diseases of the immune system, and pathogen-borne diseases, and undesirable targets, such as toxins, reactions associated with organ transplants, hormone-related diseases, and non-cancerous diseased cells or tissue.

AN 2003:45682 USPATFULL
TI Thermotherapy via targeted delivery of nanoscale magnetic particles
IN Handy, Erik S., Arlington, MA, UNITED STATES
Ivkov, Robert, Marblehead, MA, UNITED STATES
Ellis-Busby, Diane, Lancaster, MA, UNITED STATES
Foreman, Allan, Epping, NH, UNITED STATES
Braunhut, Susan J., Wellesley, MA, UNITED STATES
Gwost, Douglas U., Shoreview, MN, UNITED STATES
Ardman, Blair, Marblehead, MA, UNITED STATES
PA Triton Biosystems, Inc., Chelmsford, MA (U.S. corporation)
PI US 2003032995 A1 20030213
AI US 2002-200082 A1 20020719 (10)
PRAI US 2001-307785P 20010725 (60)
DT Utility
FS APPLICATION
LREP ALTERA LAW GROUP, LLC, 6500 CITY WEST PARKWAY, SUITE 100, MINNEAPOLIS, MN, 55344-7704
CLMN Number of Claims: 79
ECL Exemplary Claim: 1
DRWN 8 Drawing Page(s)
LN.CNT 2579

L2 ANSWER 5 OF 7 USPATFULL on STN
AB Disclosed are compositions comprising magnetic nanoparticles, a biocompatible coating, and a target-specific ligand. Also disclosed are devices for treating diseased tissue for use with such compositions. Further disclosed are methods for treating diseased tissue, such as cancer, using such compositions and devices, as well as methods for treating diseased tissue utilizing hypertermia.

AN 2003:38423 USPATFULL
TI Thermotherapy via targeted delivery of nanoscale magnetic particles
IN Handy, Erik Schroeder, Arlington, MA, UNITED STATES
Ivkov, Robert, Marblehead, MA, UNITED STATES
Ellis-Busby, Diane, Lancaster, MA, UNITED STATES
Foreman, Allan, Epping, NH, UNITED STATES
PA Triton Biosystems, Inc., Chelmsford, MA (U.S. corporation)
PI US 2003028071 A1 20030206
AI US 2002-176950 A1 20020618 (10)
PRAI US 2001-307785P 20010725 (60)
DT Utility
FS APPLICATION
LREP ALTERA LAW GROUP, LLC, 6500 CITY WEST PARKWAY, SUITE 100, MINNEAPOLIS, MN, 55344-7704
CLMN Number of Claims: 85
ECL Exemplary Claim: 1
DRWN 7 Drawing Page(s)
LN.CNT 1519

L2 ANSWER 6 OF 7 USPATFULL on STN
AB Improved methods for the detection and quantitation of labeled biological materials in a sample using elemental spectroscopic detection are described. Element-labeled biologically active materials, comprising antibodies, antigens, growth factors, hormones, receptors and other biologically active materials covalently attached to a stable elemental tag, can be used in specific binding assays and measured by elemental spectroscopic detection. Also described are methods for the determination of metals in samples of interest using specific antibodies to isolate the target metals and elemental spectroscopy for detection

and quantitation.
AN 2002:164823 USPATFULL
TI Elemental analysis of tagged biologically active materials
IN Baranov, Vladimir, Richmond Hill, CANADA
Tanner, Scott, Aurora, CANADA
Bandura, Dmitry, Aurora, CANADA
Quinn, Zoe, Toronto, CANADA
PA MDS SCIEX (non-U.S. corporation)
PI US 2002086441 A1 20020704
AI US 2001-905907 A1 20010717 (9)
PRAI US 2000-258387P 20001228 (60)
DT Utility
FS APPLICATION
LREP Stephen A. Bent, FOLEY & LARDNER, Washington Harbour, 3000 K Street,
N.W., Suite 500, Washington, DC, 20007-5109
CLMN Number of Claims: 31
ECL Exemplary Claim: 1
DRWN 5 Drawing Page(s)
LN.CNT 1455
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 7 OF 7 USPAT2 on STN
AB Aluminum hydroxide fibers approximately 2 nanometers in diameter and
with surface areas ranging from 200 to 650 m²/g have been found to
be highly electropositive. When dispersed in water they are able to
attach to and retain electronegative particles. When combined into a
composite filter with other fibers or particles they can filter bacteria
and nano size particulates such as viruses and colloidal particles at
high flux through the filter. Such filters can be used for purification
and sterilization of water, biological, medical and pharmaceutical
fluids, and as a collector/concentrator for detection and assay of
microbes and viruses. The alumina fibers are also capable of filtering
sub-micron inorganic and metallic particles to produce ultra pure water.
The fibers are suitable as a substrate for growth of cells.
Macromolecules such as proteins may be separated from each other based
on their electronegative charges.
AN 2003:185611 USPAT2
TI Nanosize electropositive fibrous adsorbent
IN Tepper, Frederick, 4985 Fawn Ridge Pl., Sanford, FL, United States
32771
Kaledin, Leonid, 1665 Promenade Cir., Port Orange, FL, United States
32129
PI US 6838005 B2 20050104
AI US 2002-177709 20020621 (10)
PRAI US 2001-300184P 20010622 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Drodge, Joseph
LREP Allen, Dyer, Doppelt, Milbrath & Gilchrist, P.A.
CLMN Number of Claims: 19
ECL Exemplary Claim: 19
DRWN 9 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 1323
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> log y

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SINCE FILE

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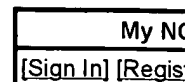
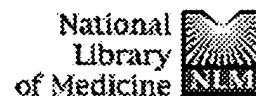
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Search PubMed for "metal clusters" misfolded protein Preview Go Clear

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#27 Search "metal clusters" misfolded protein	11:52:14	<u>0</u>
#26 Search "metal clusters" misfolded proteins	11:52:07	<u>0</u>
#14 Search "metal clusters" protein	11:11:48	<u>55</u>
#12 Search "metal clusters"	11:01:56	<u>241</u>
#11 Search metal cluster prion	11:01:34	<u>2</u>
#6 Search metal clusters prion	10:53:58	<u>6</u>
#5 Search metal clusters	10:53:47	<u>2597</u>
#4 Search vodyanoy V	10:52:18	<u>26</u>
#3 Search vodyanoy prion	10:51:41	<u>0</u>
#2 Search vodyanoy metal clusters	10:51:29	<u>0</u>
#1 Search vodyanoy	10:51:12	<u>52</u>

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